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2818

PTO/SB/21 (12/97)

Approved for use through 09/30/00 OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b>  (To be used for all correspondence after initial filing)		<b>Application Number</b>	<b>09/428,110</b>
		<b>Filing Date</b>	<b>10/27/99</b>
		<b>First Named Inventor</b>	<b>Young-Min Kang</b>
		<b>Group Art Unit</b>	<b>2818</b>
		<b>Examiner Name</b>	<b>H. Ho</b>
<b>TOTAL NUMBER OF PAGES IN THIS SUBMISSION</b>		<b>Attorney Docket Number</b>	<b>51876.p160</b>

**ENCLOSURES (check all that apply)**

<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts Under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers <input type="checkbox"/> Drawings <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) & Accompanying Petition <input type="checkbox"/> Petition Checklist & Accompanying Petition To Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Request <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication Group <input type="checkbox"/> Appeal Communication to Board of Appeals & Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Additional Enclosure(s) (please identify below) <div style="text-align: center;"><b>RECEIVED</b> <b>AUG 24 2000</b> TECHNOLOGY CENTER 2800</div>
<b>Remarks</b>		

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

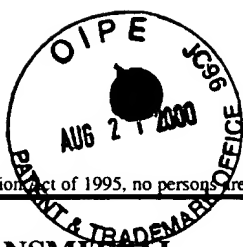
<b>Firm or Individual Name</b>	<b>BLAKELY SOKOLOFF TAYLOR &amp; ZAFMAN</b>
<b>Signature</b>	
<b>Date</b>	<b>August 14, 2000</b>

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date:		<b>August 14, 2000</b>	
<b>Typed or Printed Name</b>	<b>ERIC S. HYMAN, ESQ.</b>		
<b>Signature</b>		<b>Date</b>	<b>August 14, 2000</b>

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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PTO/SB/17 (12/97)

Approved for use through 09/30/00 OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL**

Note: Effective October 1, 1997

Patent fees are subject to annual revision

Complete If Known

Application Number	09/428,110
Filing Date	10/27/99
First Named Inventor	Kang
Group Art Unit	2818
Examiner Name	Ho
Attorney Docket No.	51876.p160

TOTAL AMOUNT OF PAYMENT

(\$)

**METHOD OF PAYMENT (check one)**

1. ☒ The Commissioner is hereby authorized to charge indicated fees & credit any overpayments to:

Acct # 02-2666

Acct Name Blakely Sokoloff Taylor &amp; Zafman

- ☒ Charge any add'l fee required under 37 CFR 1.16 & 1.17 ☐ Charge issue fee set in 37 CFR 1.18 at the mailing of the Notice of Allowance

2. ☐ Payment Enclosed:

☐ Check ☐ Money Order ☐ Other**Fee Calculation****1. Filing Fee**

Large Entity Code	Fee (\$)	Small Entity Code	Fee (\$)	Fee Description	Fee Paid
101	690	201	345	Utility filing fee	
106	310	206	155	Design filing fee	
107	480	207	240	Plant filing fee	
108	690	208	345	Reissue filing fee	
114	150	214	75	Provisional filing fee	

Subtotal (1) (\$).00

**2. Claims**

	*	Extra	Fee from Below	Fee Paid
Total Claims	<input type="checkbox"/>	20 - <input type="checkbox"/>	X	
Ind. Claims	<input type="checkbox"/>	3 - <input type="checkbox"/>	0 X	
Multiple Dependent Claims				

Large Entity Code	Fee (\$)	Small Entity Code	Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	78	202	39	Independent claims in excess of 3
104	260	204	130	Multiple dependent claim
109	78	209	39	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 & over original patent

Subtotal (2) (\$)

**FEE CALCULATION (continued)****3 Additional Fees**

Large Entity Code	Fee (\$)	Small Entity Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge-late filing fee or oath	
127	50	227	25	Surcharge-late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within 1st month	
116	380	216	190	Extension for reply within 2nd month	
117	870	217	435	Extension for reply within 3rd month	
118	1360	218	680	Extension for reply within 4th month	
128	1850	228	925	Extension for reply within 5th month	
119	300	219	150	Notice of Appeal	
120	300	220	150	Filing a brief in support of appeal	
121	260	221	130	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to Revive-unavoidable	
141	1210	241	605	Petition to Revive-unintentional	
142	1210	242	605	Utility issue fee (or reissue)	
143	430	243	215	Design issue fee	
144	580	244	290	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of IDS	
581	40	581	40	Recording each patent assignment per property	
146	760	246	380	Filing a submission after final rejection	
149	760	249	380	For each add'l invention to be examined	

Other fee (specify)

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

Subtotal (3) (\$)

**SUBMITTED BY**

Name ERIC S. HYMAN

Signature

Date

7/1/2001

**COMPLETE (if applicable)**

Reg. Number

30,139

Deposit Acct User ID

\*Highest number of claims previously paid for if an amendment is being transmitted.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Our Ref. No.: 51876.P160

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kang

Serial No.: 09/428,110

Filing Date: 10/27/99

For: FERROELECTRIC RANDOM ACCESS MEMORY  
DEVICE CAPABLE OF REDUCING OPERATION  
FREQUENCY OF REFERENCE CELL

Examiner: H. HO

Art Unit: 2818

#5/Amult A  
A. Tyson  
8/24/00

AMENDMENT AND RESPONSE TO OFFICE ACTION

Assistant Commissioner for Patents  
Washington, D.C. 20231

RECEIVED  
AUG 24 2000  
TECHNOLOGY CENTER 2800

Dear Sir:

In response to the outstanding Office Action mailed May 12, 2000, please amend the above-identified application as follows:

IN THE CLAIMS

Please cancel claim 2.

Please amend claim 1 as follows:

- 1 1. (Amended) A ferroelectric random access memory (FeRAM)  
2 device, comprising:  
3 a plurality of memory cells arranged in an M x J matrix,  
4 wherein M is [a positive integer more than three]  $2^N$ , N is a  
5 positive integer greater than 1 and J is a positive integer;  
6 a number of reference cells connected to each column of the  
7 memory cells, wherein the number of reference cells is N; and  
8 a cell selection means for selecting a memory cell in  
9 response to address signals from an external circuit and selecting  
10 a reference cell corresponding to the selected memory cell.